~~【書類名】~~ ~~図面~~

~~【図1】~~

Fig. 1A

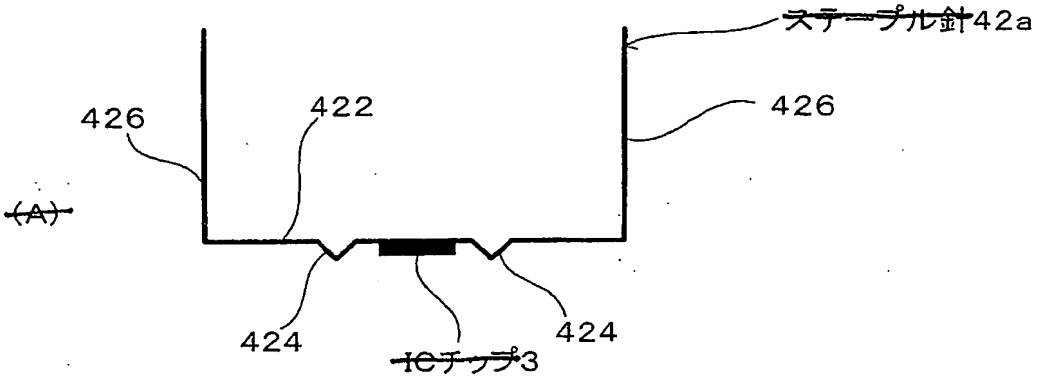
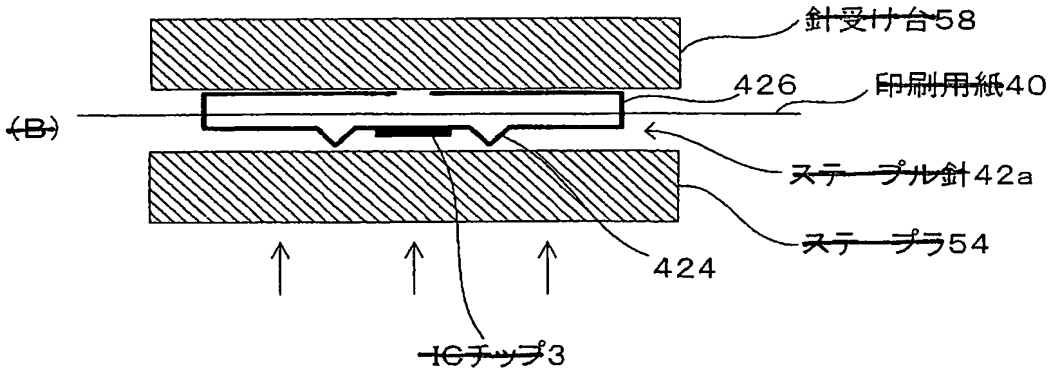
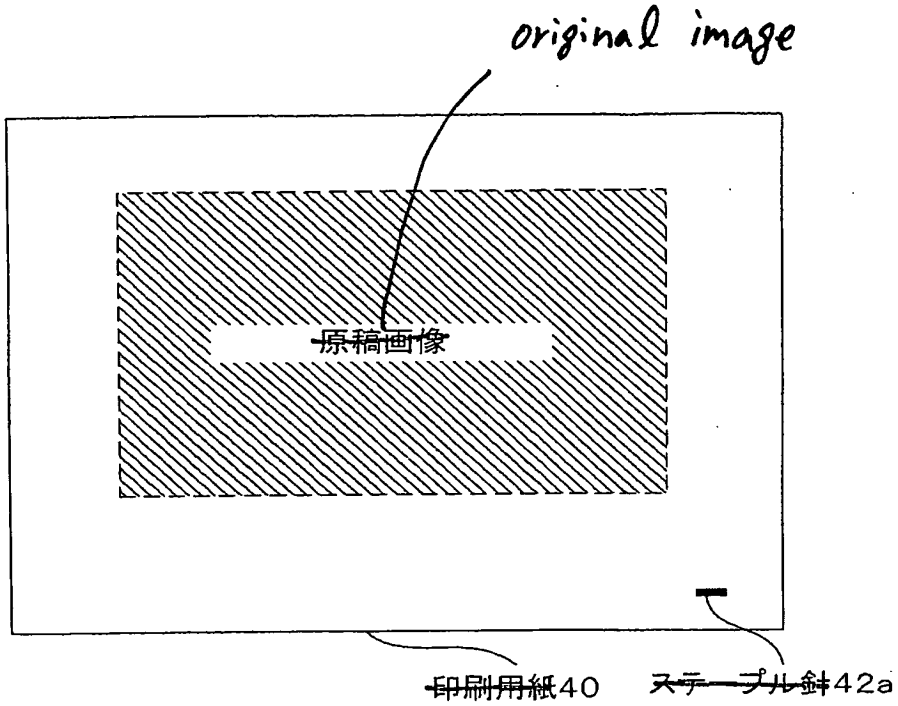


Fig. 1B



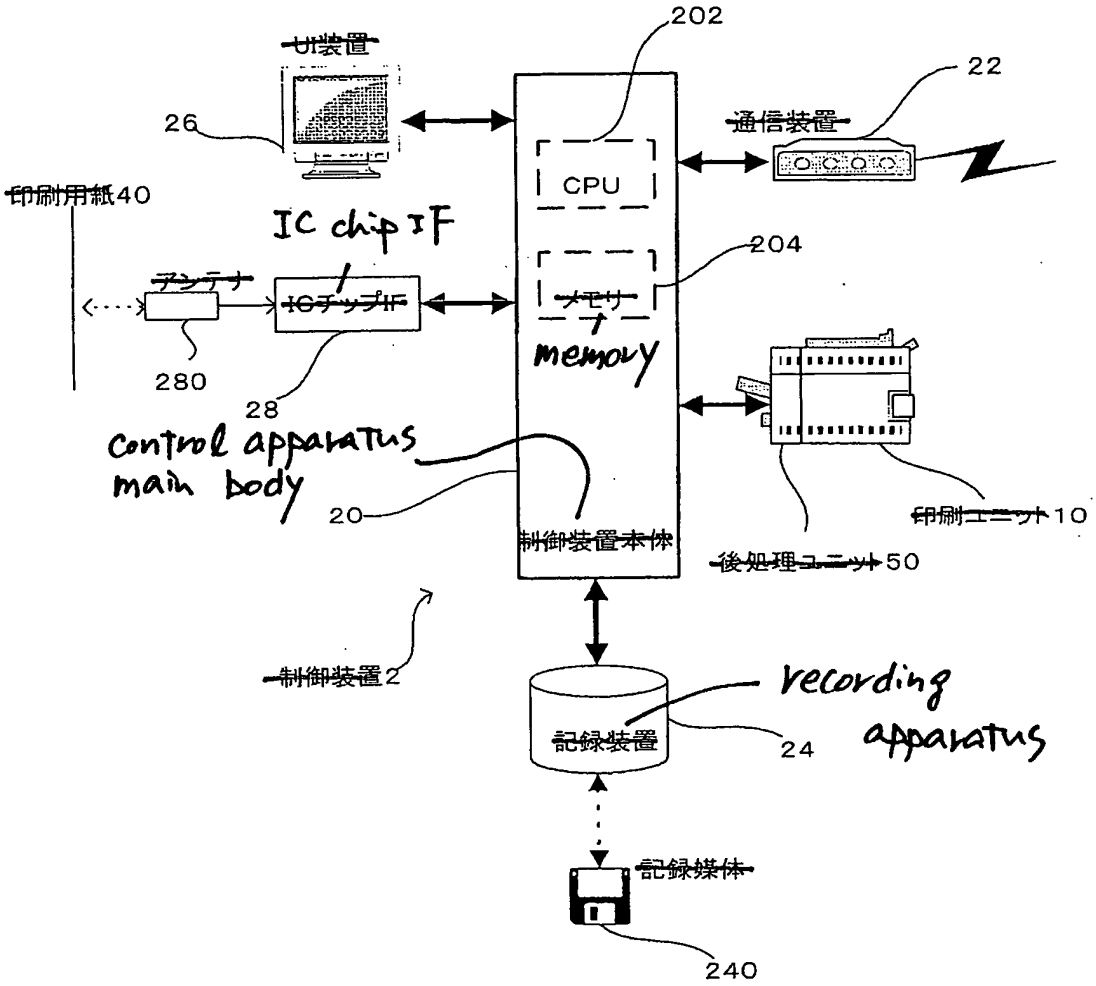
~~【図2】~~

Fig. 2



~~【図3】~~

Fig. 3


202
~~UI装置~~
22
26
~~通信装置~~
CPU
~~印刷用紙40~~
IC chip IF
204
~~アンテナ~~
~~ICチップIF~~
~~メモリ~~
memory
280
28
control apparatus main body
20
~~制御装置本体~~
~~印刷ユニット~~ 10
~~後処理ユニット~~ 50
~~制御装置2~~
recording apparatus
~~記録装置~~
24
~~記録媒体~~
240
~~コピー装置~~ 1

【図4】

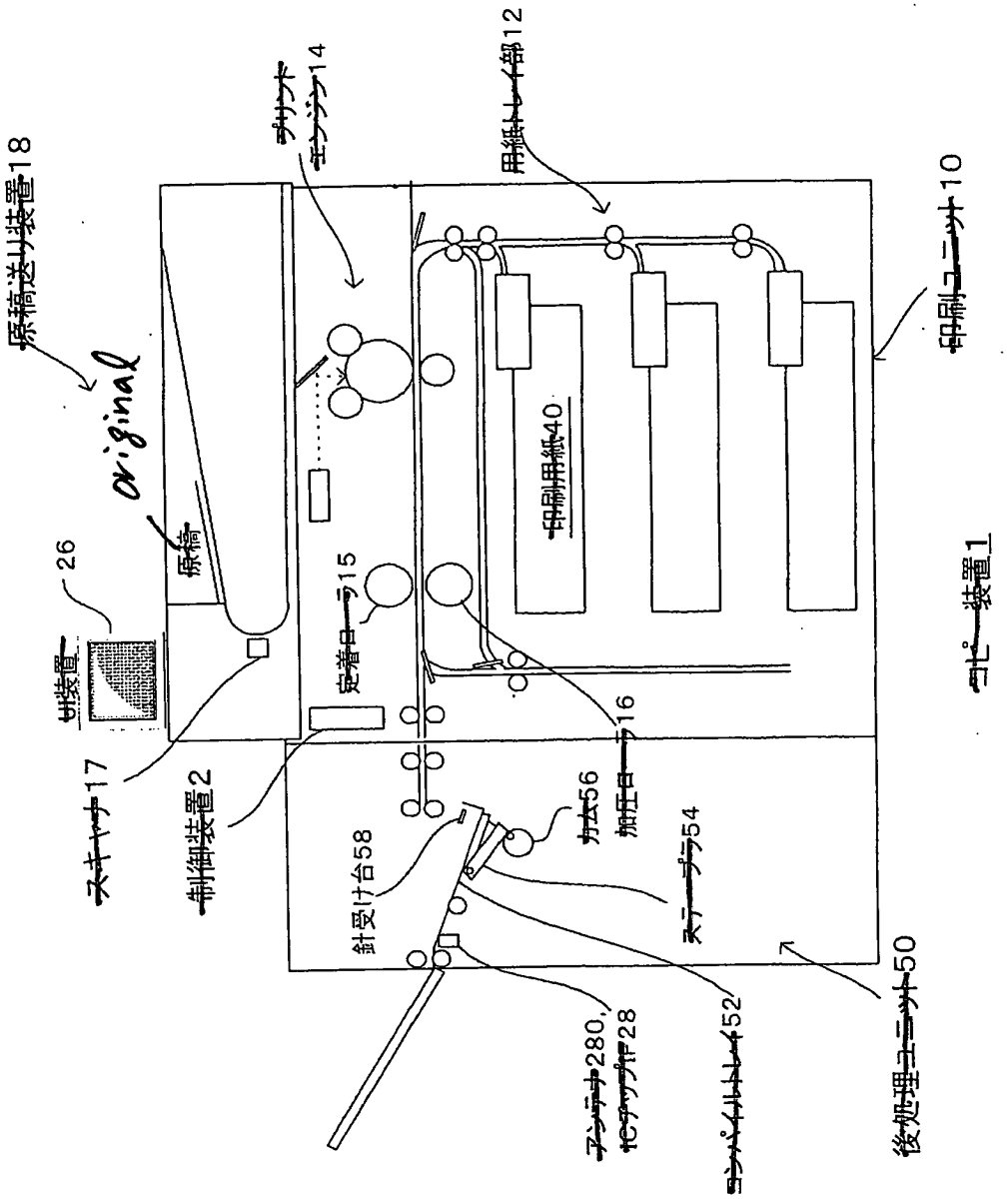

原稿送り装置18
original
原稿
26
排出装置
スキャナ17
制御装置2
定着ローラ15
サブモータ14
用紙トレイ部12
印刷用紙40
印刷ユニット10
プリンタ装置1
加圧ローラ16
カム56
スイープローラ54
針受け台58
ICカードリーダ28
ターンパイルトレイ52
後処理ユニット50

Fig. 4

~~【図5】~~

Fig. 5

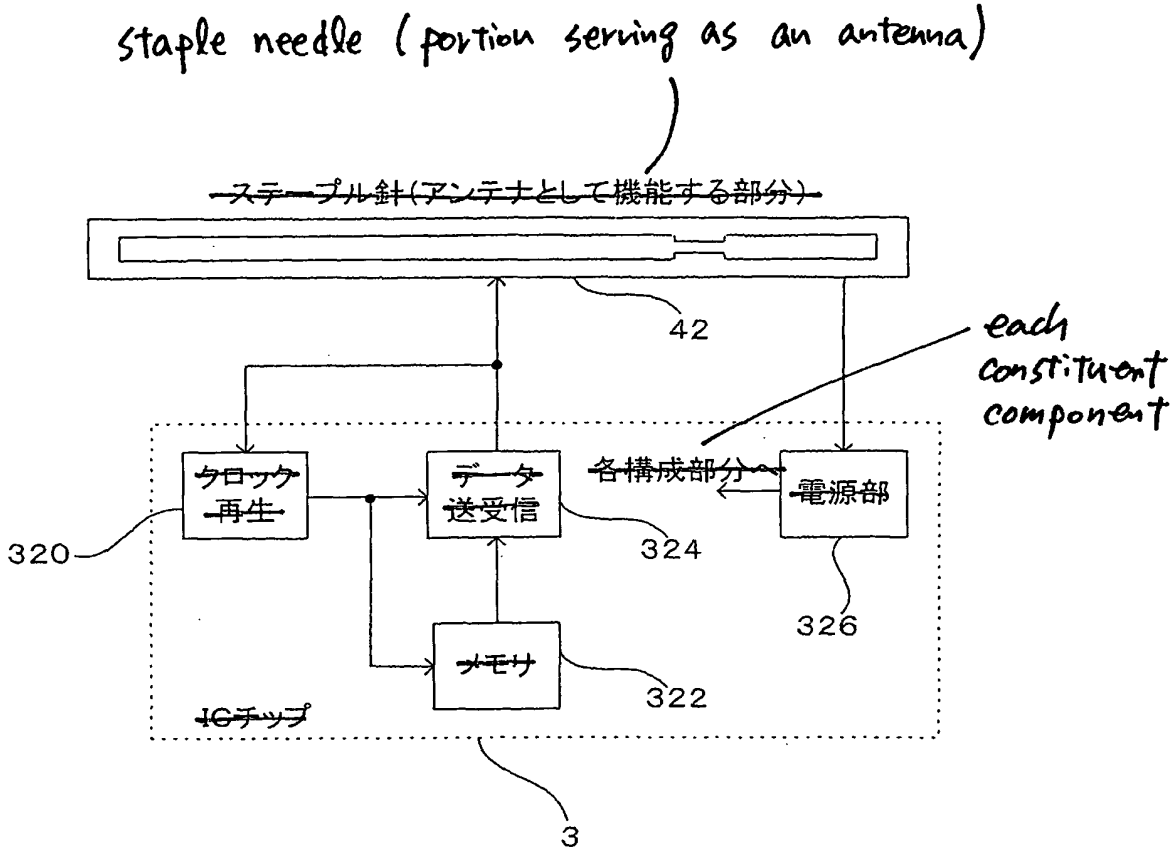

staple needle (portion serving as an antenna)
~~ステープル針(アンテナとして機能する部分)~~
42
each constituent component
~~クロック再生~~
~~データ送受信~~
~~各構成部分~~
~~電源部~~
320
324
326
~~メモリ~~
322
~~ICチップ~~
3

FIG. 5

320 clock reproducing circuit

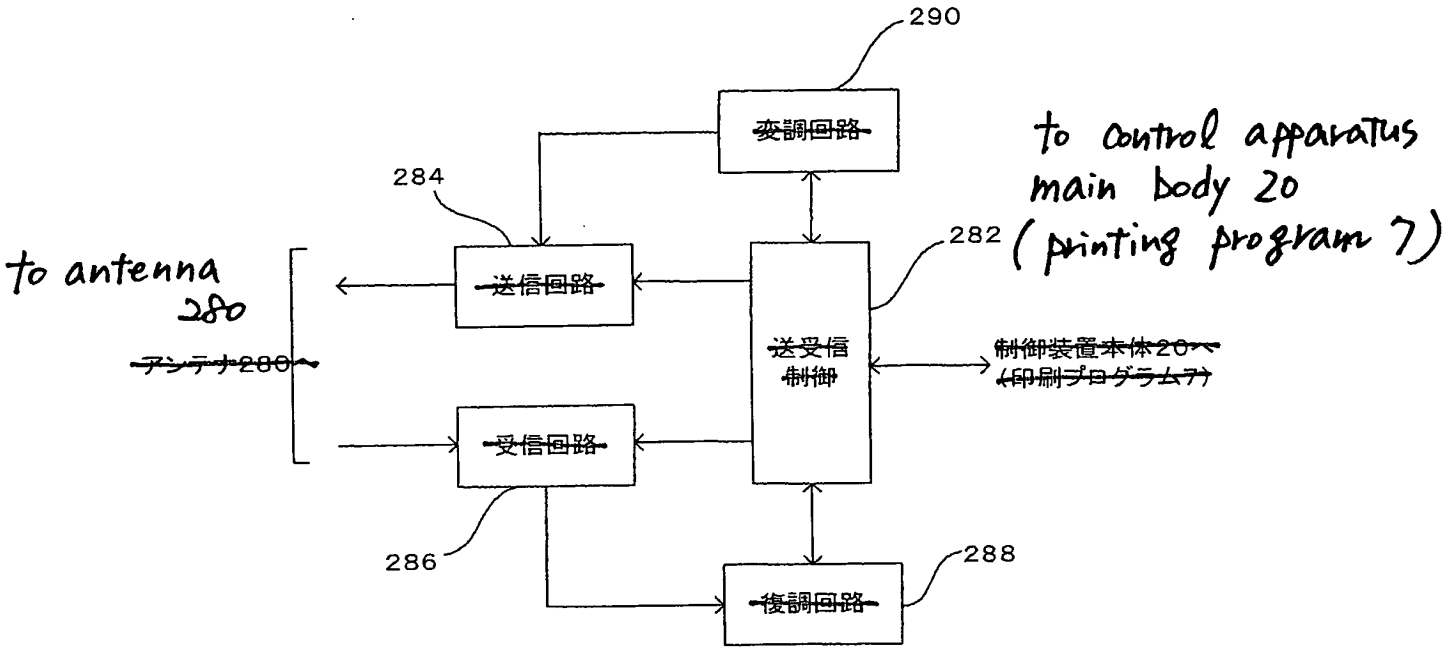
322 memory circuit

324 data transmitting/receiving circuit

326 power supply circuit

~~【図6】~~

Fig. 6



~~ICチップIF~~28

FIG. 6

284 transmitting circuit

286 receiving circuit

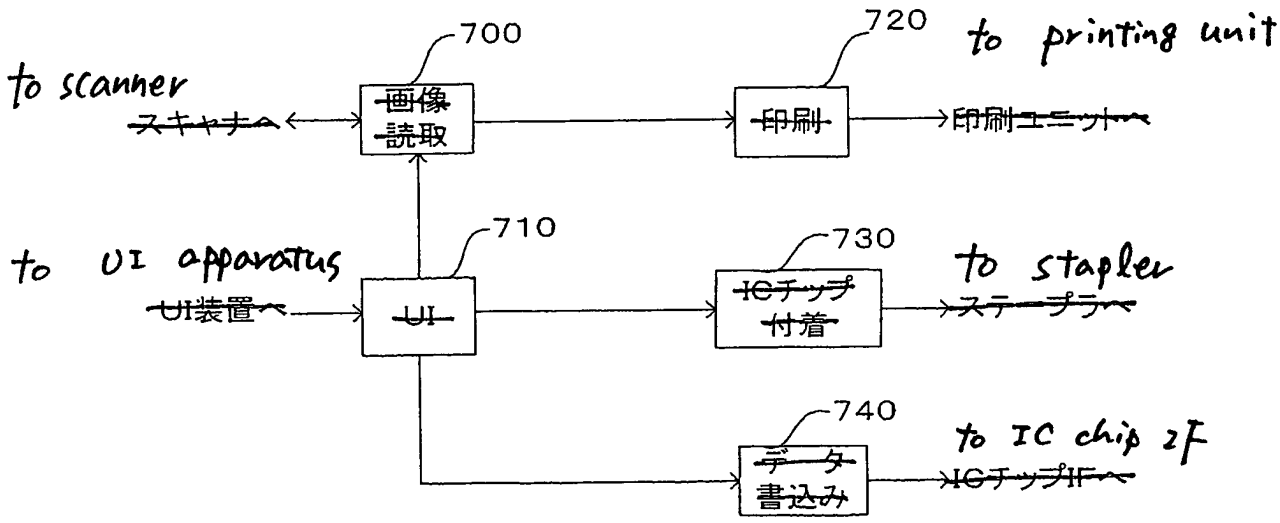
290 modulating circuit

282 transmission/reception control circuit

288 demodulating circuit

~~【図7】~~

Fig. 7



~~印刷プログラム~~7

FIG. 7

700 image reading section

710 UI section

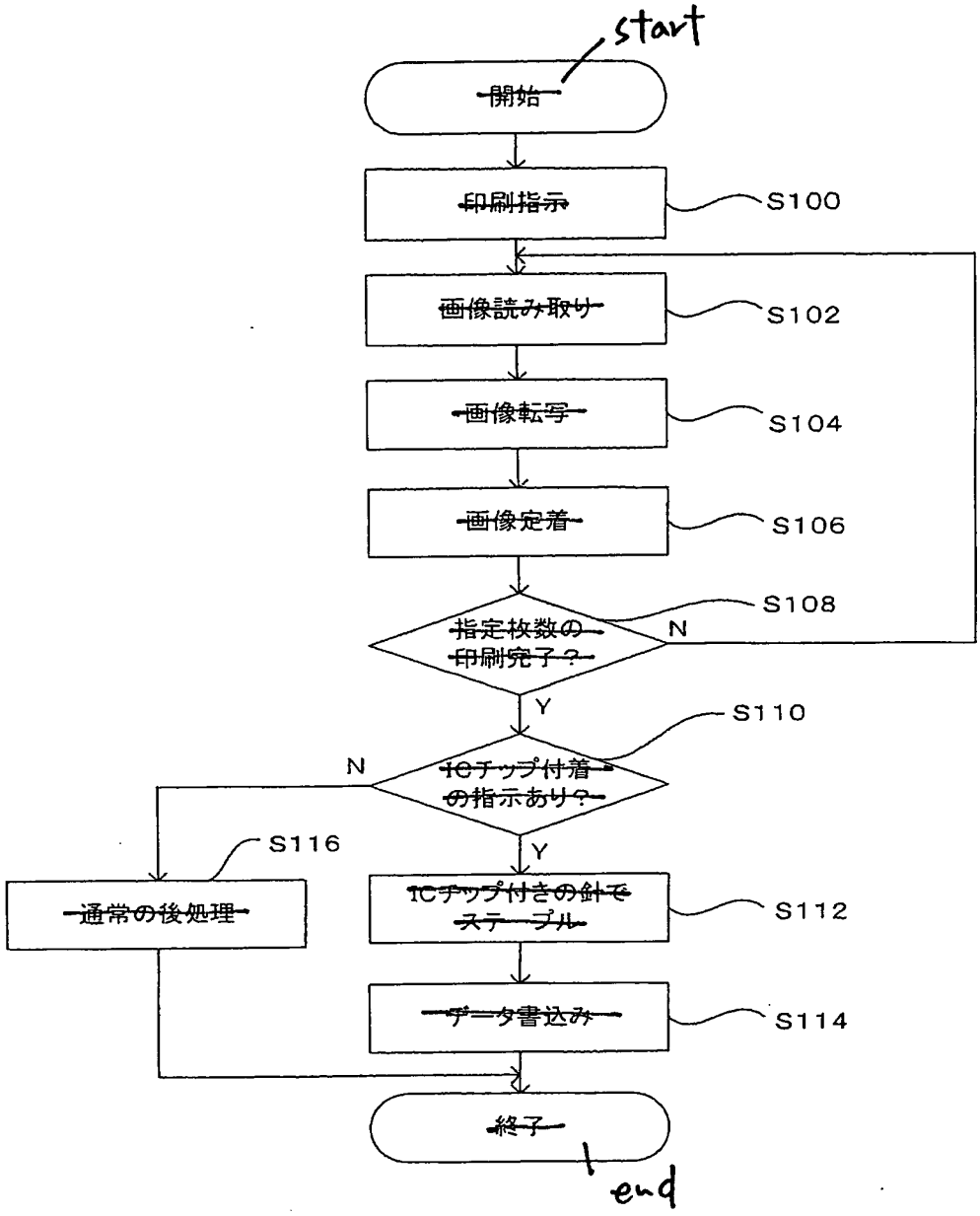
720 printing section

730 IC chip attaching section

740 data writing section

【図8】

Fig. 8


start
開始
印刷指示
S100
画像読み取り
S102
画像転写
S104
画像定着
S106
指定枚数の印刷完了？
S108
N
Y
ICチップ付着の指示あり？
S110
N
Y
通常の後処理
S116
ICチップ付きの針でステープル
S112
データ書込み
S114
終了
end

S10

FIG. 8

S100 instruct printing operation

S102 read image

S104 transfer image

S106 fix image

S108 designated sheet of printing operation is completed?

S110 attaching of IC chip is instructed?

S112 staple needle equipped with IC chip

S114 write data into IC chip

S116 execute normal postprocessing operation

【図9】

Fig. 9A

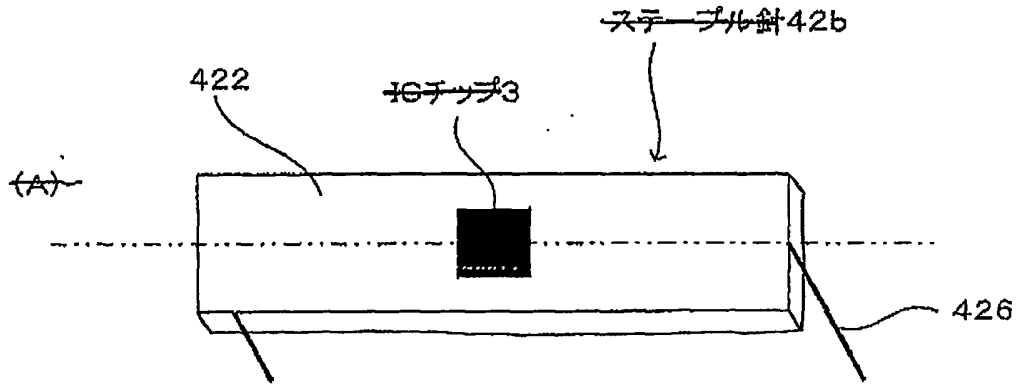
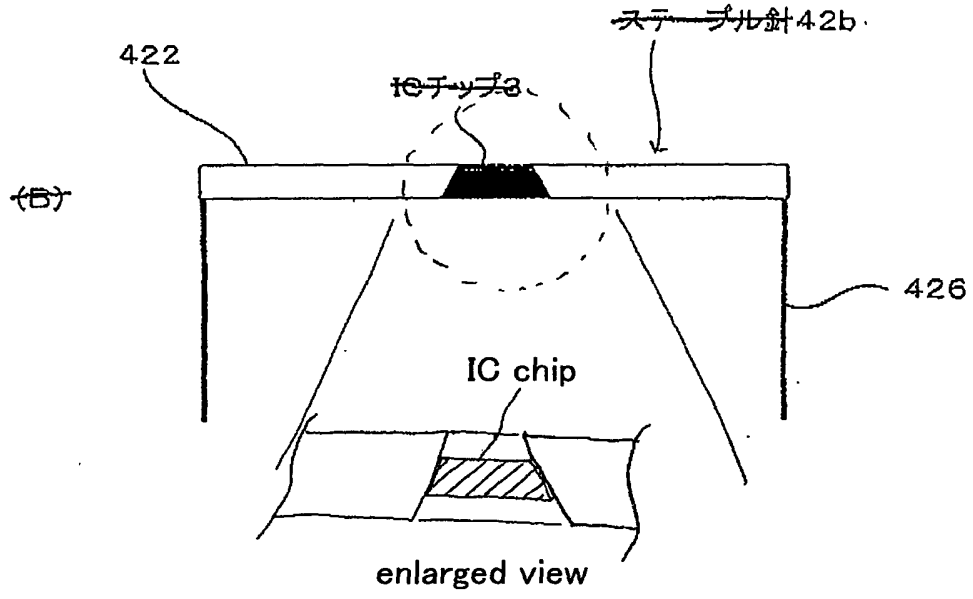


Fig. 9B



~~【図10】~~

Fig. 10A

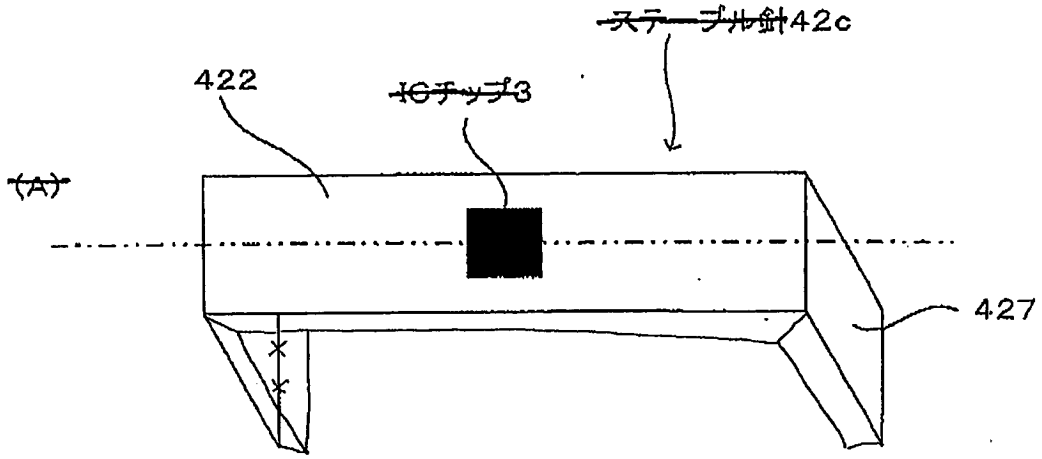
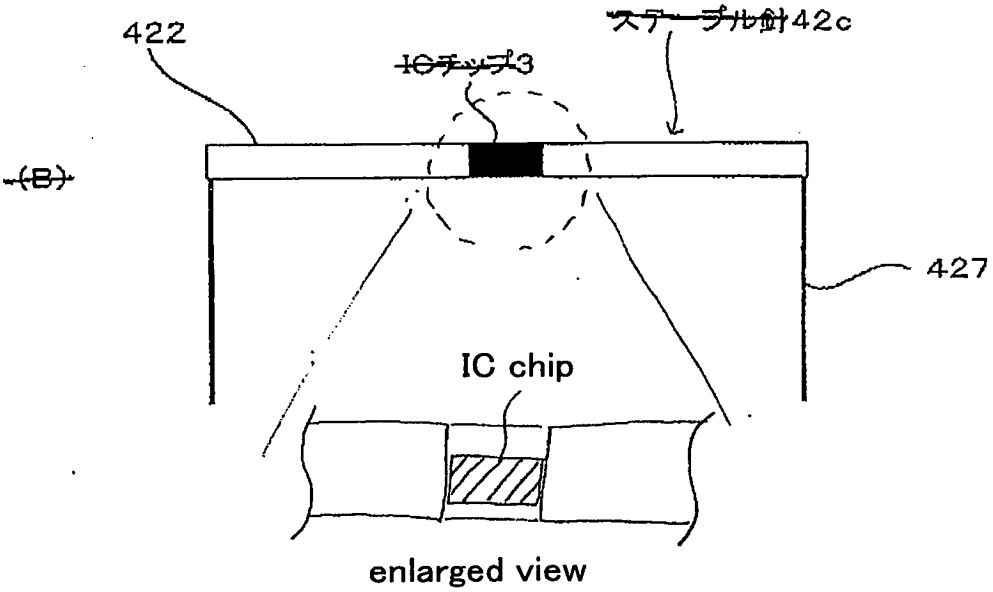


Fig. 10B



~~[図11]~~

Fig. 11A

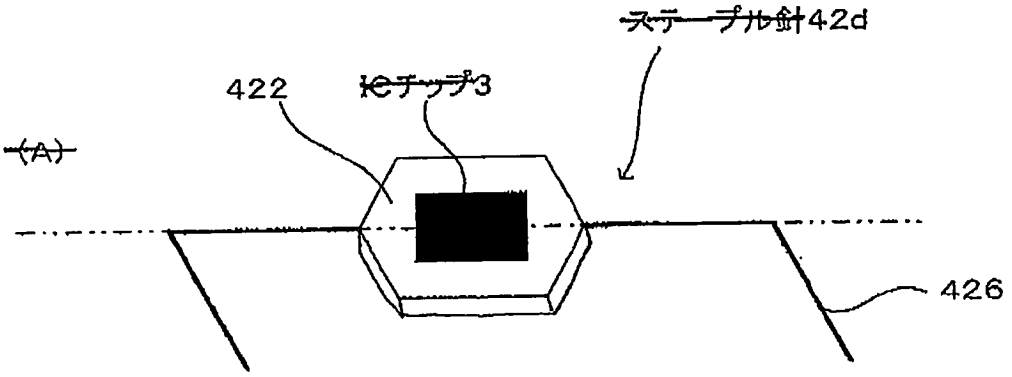
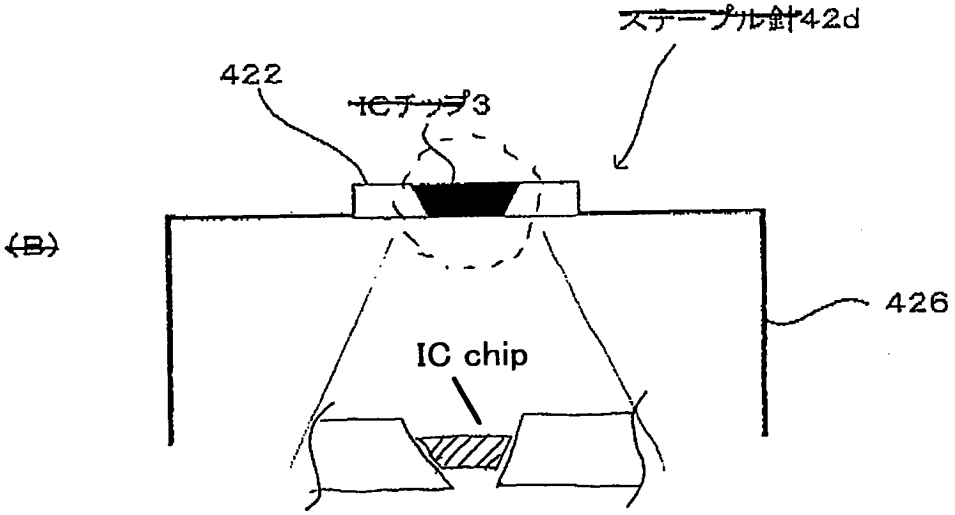


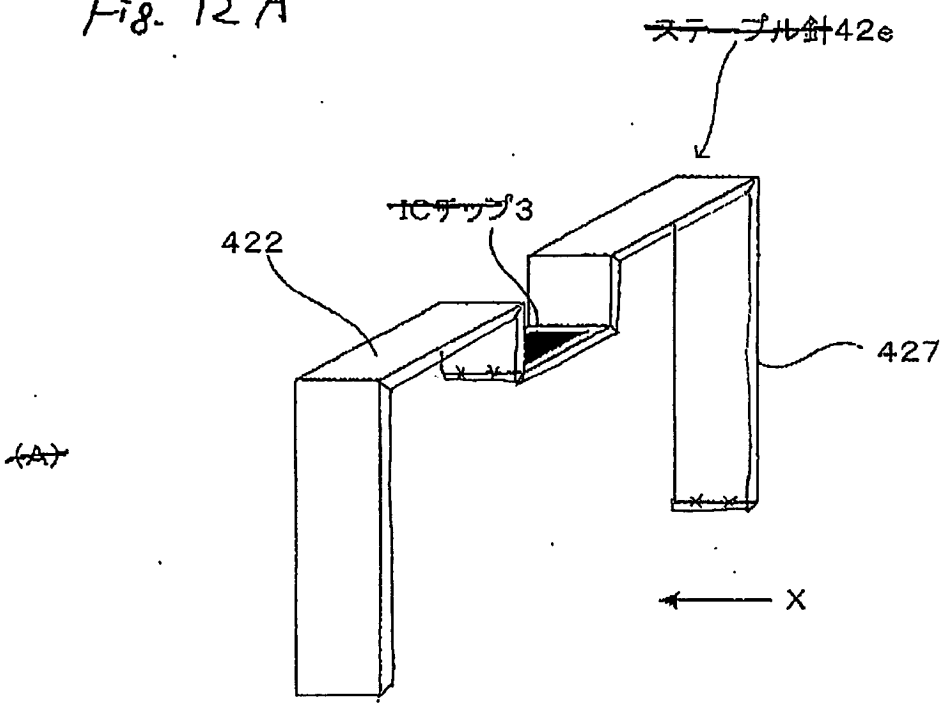
Fig. 11B



enlarged view

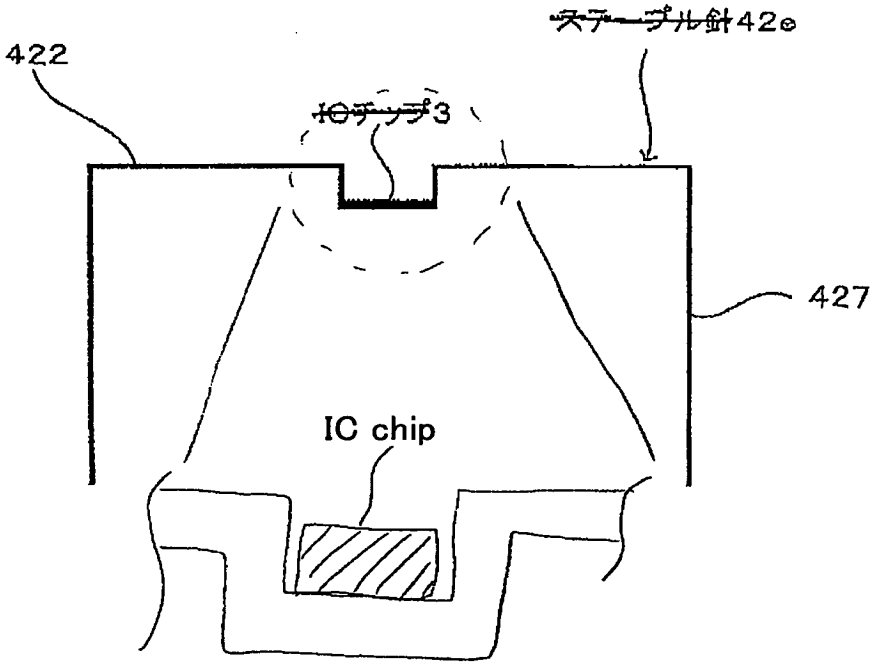
~~【図12】~~

Fig. 12 A



~~(A)~~

Fig. 12 B

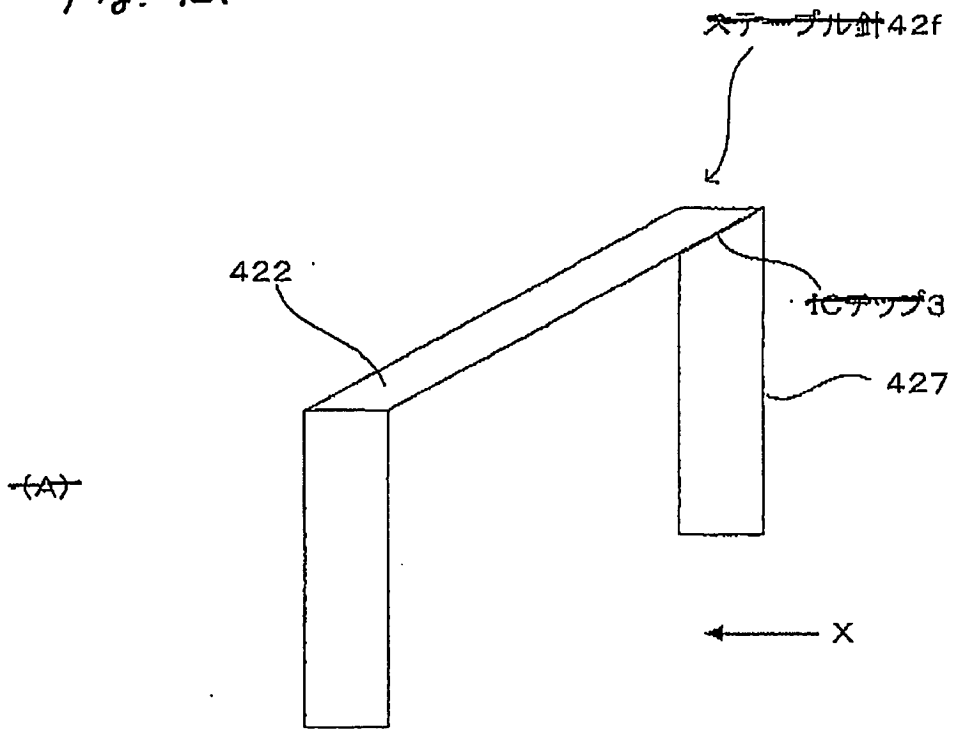


~~(B)~~

enlarged view

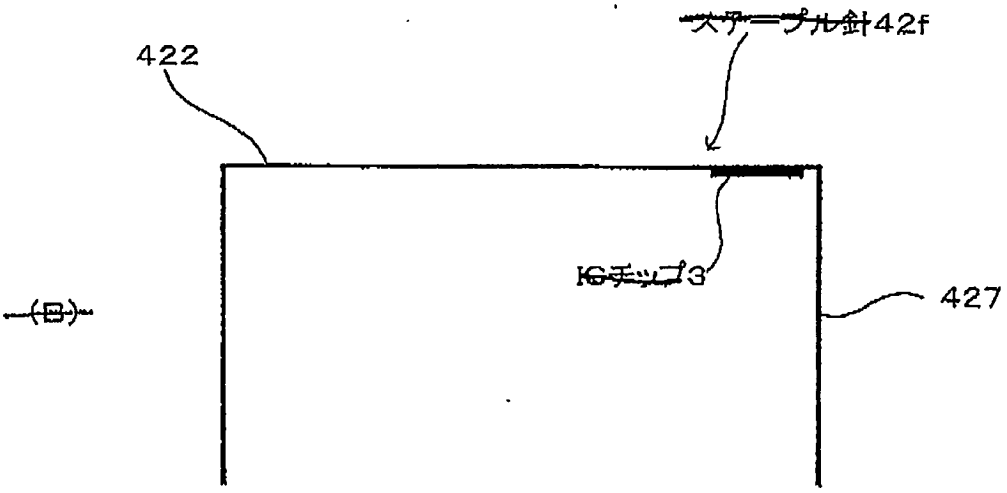
~~【図13】~~

Fig. 13A



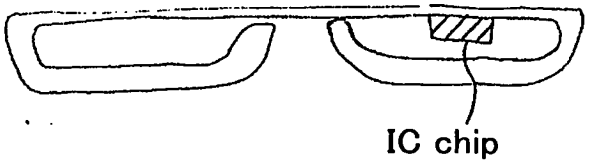
~~(A)~~

Fig. 13B



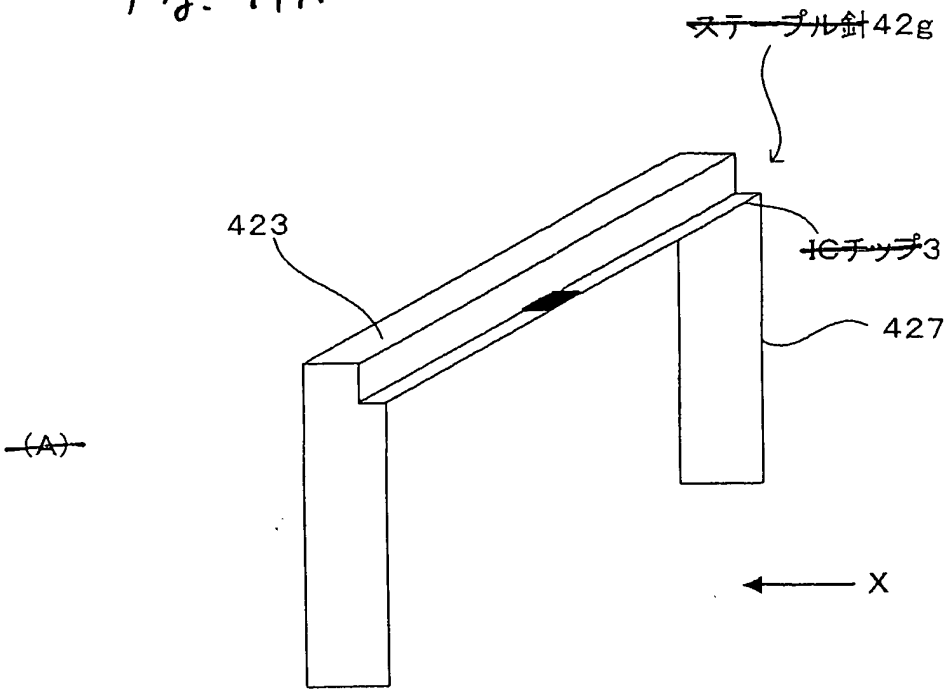
~~(B)~~

Fig. 13C



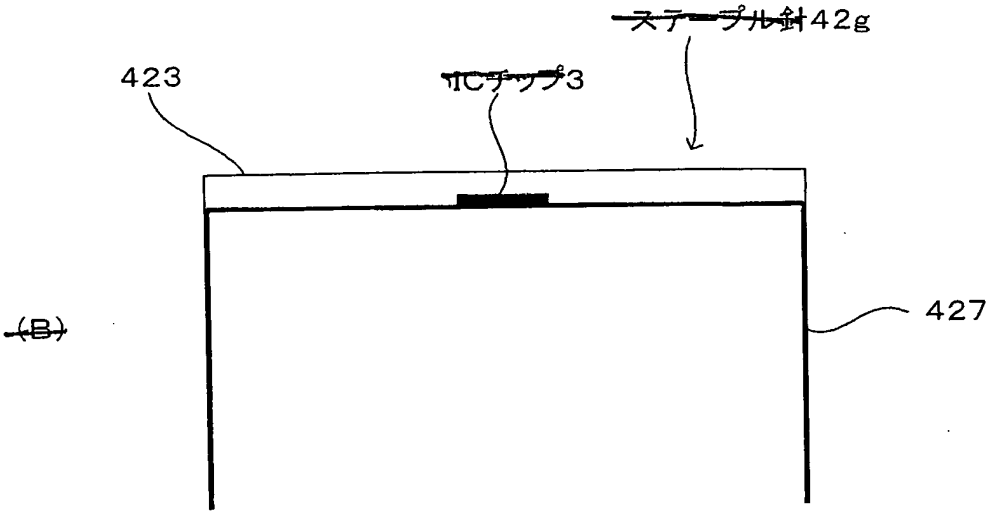
【図14】

Fig. 14A



(A)

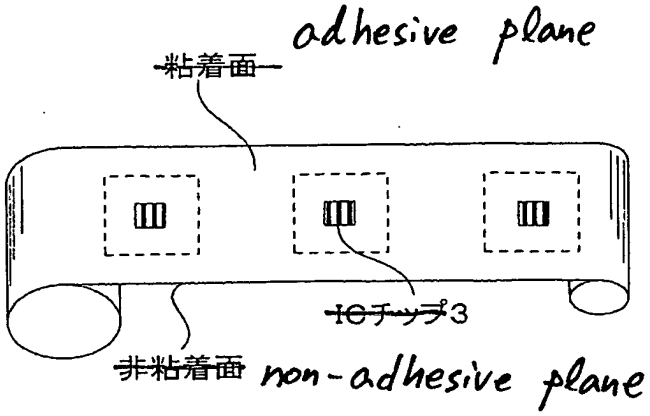
Fig. 14B



(B)

~~【図15】~~

Fig. 15



~~粘着テープ~~53

~~【図16】~~

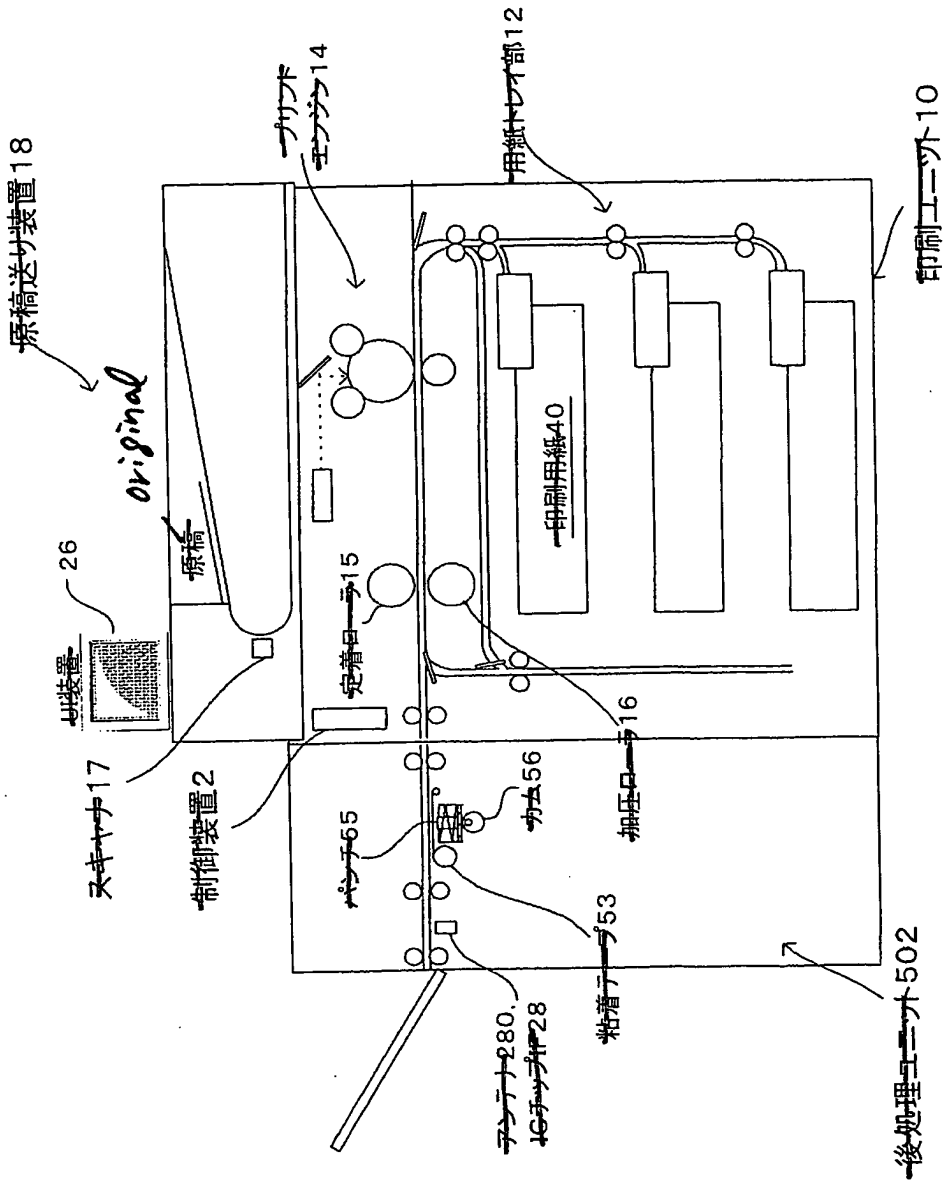
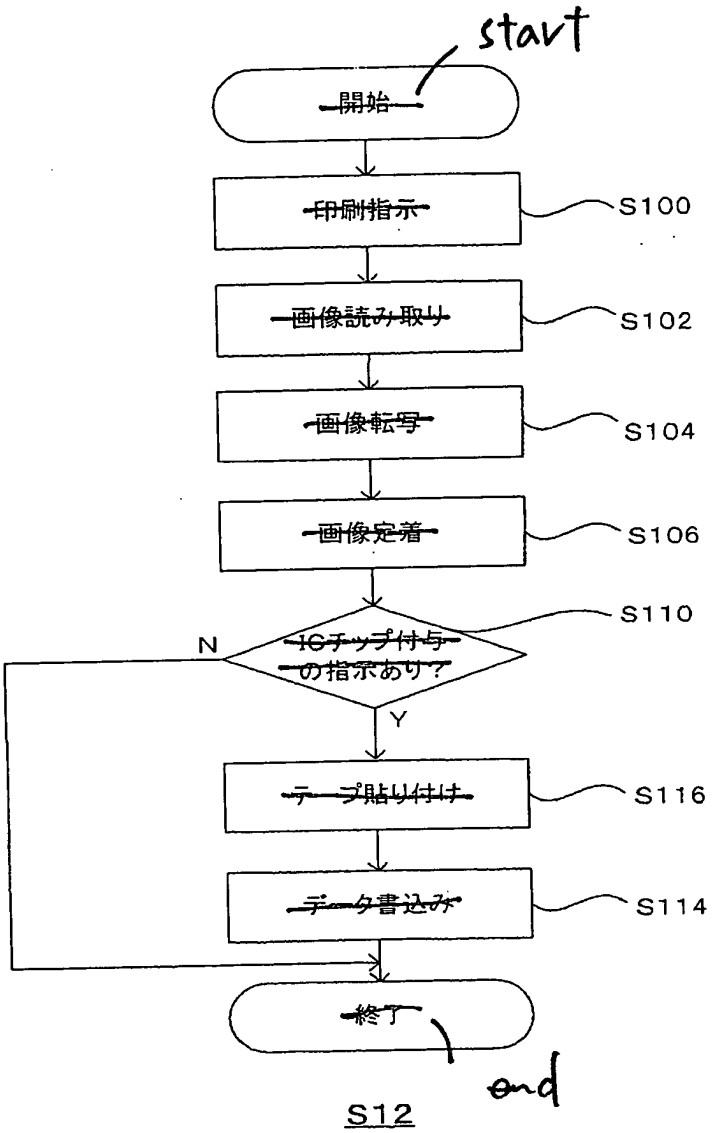

原稿送り装置18
original
原稿
26
載置
スキャナ17
制御装置2
定着ローラ15
プリンタエンジン14
用紙トレイ部12
印刷用紙40
加圧ローラ16
カム56
パンチ65
粘着ローラ53
テンテート280
後処理ユニット502
印刷ユニット10
コピー装置102

Fig 16

【図17】

Fig. 17



S12

FIG. 17

S100 instruct printing operation

S102 read image

S104 transfer image

S106 fix image

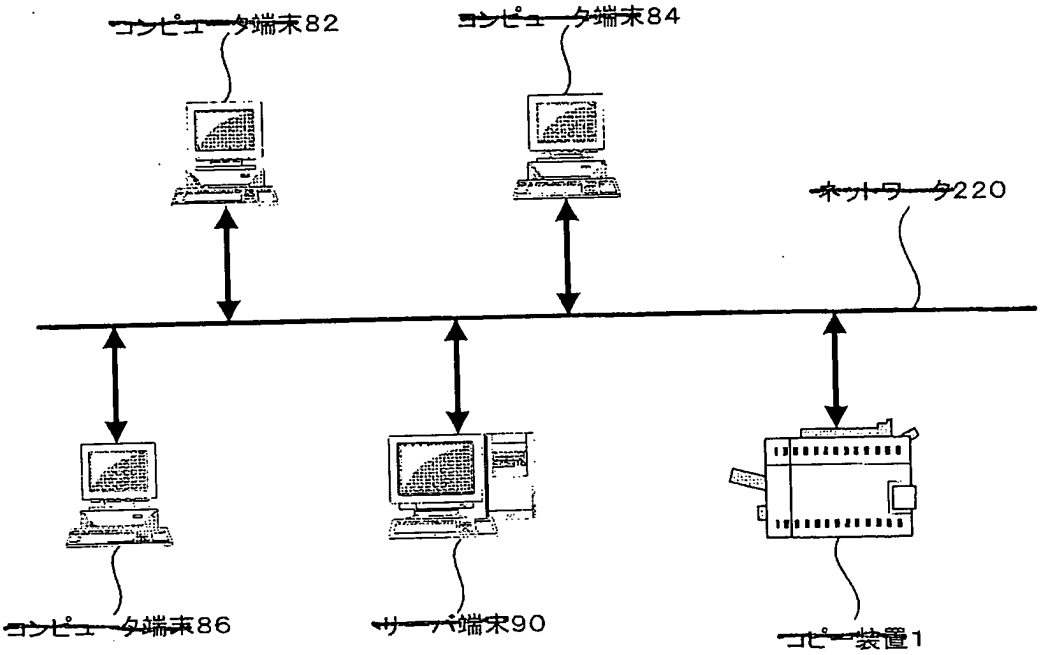
S110 attaching of IC chip is instructed?

S114 write data into IC chip

S116 adhere tape

【図18】

Fig. 18


コンピュータ端末82
コンピュータ端末84
ネットワーク220
コンピュータ端末86
サーバ端末90
コピー装置1